



Diesel Generator Set

QSK19 Series

650 - 750 kVA, 520 - 600 kWe Prime
CPCB IV+ Emission Compliant



Specification Sheet

Latest Technology and Unmatched Performance

- The Cummins® QSK19 series rugged engine and world class Stamford alternator powered diesel generator set
- Proven technology with Cummins New Electronic Fuel System
- Exhaust after-treatment and in-cylinder solution to meet stringent Emission norms
- Superior finish and aesthetics
- Compact in size with optimum power to weight ratio

Environment Friendly Power

- Class defining and technologically advanced engine to meet stringent exhaust emission norms as per the latest MoEF notification
- The Cummins® diesel generator sets are available with the lowest noise levels in its range

Lowest Operating Cost and Comprehensive Warranty

- Highly reliable and durable product
- Maximum efficiency even at part loads, offering the advantage of lowest operating costs
- 500 Hours/ 1 year service interval
- Industry acknowledged best-in-class comprehensive warranty on the entire package including rubber components

Single Source Power Assurance

- All the major components - the engine, alternator, aftertreatment system, control system and canopy are designed, manufactured, and tested by Cummins India
- Best and largest customer support network in India, capable of providing round-the-clock service and spares support

Acoustic Enclosure

- Specially designed to meet stringent MoEF/ CPCB norms of 75 dBA@1mtr at 75% load under free field conditions
- The acoustic enclosure is made CRCA sheets in Munsell green shade and a structural/ sheet metal base frame painted in black
- 11 tank pretreatment process and UV resistant powder coating of all parts to withstand extreme environment
- High quality noise absorbent and fire-retardant grade acoustic Insulation material (Rockwool) complying to IS 8183
- External fuel & DEF filling provision

Remote monitoring system

- Compact & robust device
- Real time DG status & monitoring
- 4G compatible
- Compatible for 12/24 V DC
- Reports & Notification – Alerts & Warning
- Isolated RS 485 interface
- Device location using triangulation

Technical Data

Generator Set Specification		
Model	CI 650D5P	CI 750D5P
Duty	Prime	Prime
Power Rating kVA / kWe	650/520	750/600
No. of Phases	3 Phase	3 Phase
Output Voltage and Frequency (V and Hz)	415 V, 50 Hz	415 V, 50 Hz
Power Factor	0.8	0.8
Current (A)	904	1043
RPM	1500	1500

Engine Specification		
Make	Cummins®	
Model	QSK19-G30	QSK19-G30
Required Certified Power for Rated kVA (hp)	888	888
Cooling	Liquid Cooled (EG Compleat 50:50)	
DEF	AUS 32 (Premix)	
Aspiration	Turbocharged, Charge Air Cooled	
No. of cylinders	6, In-line	6, In-line
Bore (mm) x Stroke (mm)	159 x 159	159 x 159
Compression ratio	14.7:1	14.7:1
Displacement (litre)	19	19
Fuel	High Speed Diesel	High Speed Diesel
Performance class of generator set	ISO 8528-5 G2	ISO 8528-5 G2
Starting system	24 V DC Electrical	24 V DC Electrical
Lube oil specification	CK4	CK4
Lube oil sump capacity, High-Low level (litre)	72-64	72-64
Total lubrication system capacity (Litre)	84	84
Total coolant capacity (litre)	95	95
Exhaust pipe size (inch)	10	10
Total wet weight (Engine+Radiator)* (kg)	2780 approx.	2780 approx.
Length X Width X Height (Coolpac) (mm)	2653 x 1714 x 2064	2653 x 1714 x 2064
Mean Piston speed (m/s)	7.95	7.95
Combustion air intake @100% load (±5%) (cfm)	1841	1841
Exhaust Temperature (°C)	454	454

Alternator Specification		
Make	STAMFORD (CGT)	STAMFORD (CGT)
Alternator Frame	HCI554F	HCI634W
Enclosure	IP 23	IP 23
Voltage regulation (Max.)	±1%	±1%
Class of Insulation	H Class	H Class
Winding Pitch	2/3	2/3
Stator Winding	Double layer concentric	
Rotor	Dynamically Balanced	
Waveform distortion/ Total Harmonic Distortion	No load < 1.5%, Non distorting balanced linear load < 5 %	
Maximum Unbalanced Load across phases*	less than or equal to 25%	
Telephonic Harmonic factor	< 2%	

Rating Definitions	Conformance Standards
<p>Prime Power (PRP): Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528.</p>	<ul style="list-style-type: none"> • IS/IEC 60034-1 • ISO 1460 • ISO 8528 • ISO 3046 • ISO 9001 • ISO 13018

Typical Enclosed Genset Dimensions							
Genset Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Wet Weight ¹ (kg)	DEF Tank Capacity (litre)	Standard Fuel tank Capacity (litre)
CI 650D5P	650	6800	2050	2900	9800	139	990
CI 750D5P	750	6800	2050	2900	10200	139	990

¹ Approximate Weight

Authorised Representative

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